Visualization with R - Tasks

Green-Lab

2023-10-13

Task 1: a) Create a boxplot to visualize the distribution of "Joule calculated" for each "experiment." b) Label the x-axis as "Experiment" and the y-axis as "Energy (Joules)."

Task 2: a) Create a violin plot for "Joule calculated" across different "experiment" categories. b) Overlay a boxplot inside the violin plot to show statistical summary. c) add geom_jitter() to overlay individual datapoints.

Task 3: a) Create a boxplot for "Joule calculated" for each "experiment." b) Use stat summary() to show the mean and standard error on the boxplot.

Task 4: a)Create a scatter plot (geom_point()) to show how "Joule calculated" varies among experiments. b)Assign a unique color to each "experiment" and add a legend

Task 5: Create a density plot for "Joule calculated" for each "experiment".